

## Operations and Maintenance of the Very Large Scale Integrated (VLSI) Test System ADVANTEST T3342

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## **1. PURPOSE**

To provide minimum guidance to the Advantest operator when operating the Advantest Model T3342 VLSI Test System.

## **2. SCOPE**

This work instruction is applicable to the operation and maintenance of the Advantest Model T3342 VLSI Test System.

## **3. DEFINITIONS**

3.1 See Reference Manuals for Definitions

## **4. QUALITY RECORDS AND FORMS**

4.1 None

## **5. SAFETY PRECAUTIONS AND WARNING NOTES**

5.1 Only those persons who have completed the maintenance course at the Technical Training School are qualified for the maintenance of the T3342 test system.

5.2 Circuit breakers must be in the OFF position when main power wires are connected or disconnected.

5.3 Defective lamps in the system power breakers must be replaced immediately.

5.4 A radiation monitor badge must be worn when servicing the High Voltage Test Head located inside the Cobalt-60 facility.

## **6. REFERENCES**

6.1 Advantest Model T3340 User's Maintenance Manual Number 8082802

6.2 Advantest Model T3340 Test Processor Unit/Peripheral Device Diagnostic Program Manual No. 8104635

6.3 Advantest Model T3340 Performance Board Assembly Procedure Manual No. 8133051

## **7. TOOLS, EQUIPMENT, AND MATERIALS**

7.1 See Reference Documentation for any needed tools, equipment, or materials.

## **8. PERSONNEL TRAINING AND CERTIFICATION**

8.1 All operators must attend a radiation safety course before operating the High Voltage Test Head located in the Cobalt-60 facility. Contact the JPL Radiation Safety Officer (4-4710) to schedule training.

## **9. OPERATING PROCEDURE**

### **9.1 Startup**

9.1.1 Insure the air-conditioning unit in room 117 provides air at 20-25° C with a humidity range of 20-60 percent.

9.1.2 Insure that compressed air is supplied to the unit.

### **9.2 Supporting Computer**

9.2.1 See ADVANsite ASX/V-12 Standard Set Manual Binder A.

### **9.3 Error Codes**

9.3.1 See Advantest Error Code Reference Manual Number 8141091.

### **9.4 Front Panel Data Entry**

9.4.1 See Advantest Operation & Programming Handbook Section 1.10

### **9.5 Power Down Procedure**

9.5.1 See Advantest Operation & Programming Handbook Section 1.1

### **9.6 System Reset**

9.6.1 See Advantest Operation & Programming Handbook Section 1.2

### **9.7 Shutdown**

9.7.1 Emergency shutdown: Press the big red buttons labeled “Shut Off” at different sides of the Test System Mainframe

9.7.2 Normal shutdown: Turn off circuit breakers at the Mainframe, the Extension, and the High Voltage Power Supply bay located in room 117.

## **10. FLOW DIAGRAM**

### **10.1 None**